



PATENT ABSTRACTS OF JAPAN

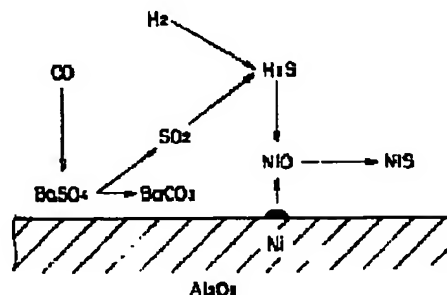
(11) Publication number: **10317946 A**(43) Date of publication of application: **02.12.98**

(51) Int. Cl.

F01N 3/08**B01D 53/86****B01D 53/94****F01N 3/10****F01N 3/24****F01N 3/24****F01N 3/28****F02D 41/02****F02D 41/04****F02D 41/04****F02D 41/34****F02D 45/00****F02D 45/00**(21) Application number: **09124492**(22) Date of filing: **14.05.97**(71) Applicant: **MITSUBISHI MOTORS CORP**(72) Inventor: **KUMAGAI SHIRO
KOGA KAZUO****(54) EXHAUST EMISSION CONTROL DEVICE****(57) Abstract:**

PROBLEM TO BE SOLVED: To quickly recover the emission control capacity of an NO_x-occluding reduction catalyst incorporated into an exhaust emission control device together with an upstream three-way catalyst.

SOLUTION: An NO_x-occluding reduction catalyst carries Ni as a catalyzer on its alumina-carrying layer. When the engine is operated in a rich air-fuel ratio range, a reducing atmosphere is produced about the NO_x catalyst, which atmosphere triggers a reaction of converting NiO into NiS with consumption of H₂S. Such consumption in turn promotes consumption of SO₂ and a reaction of converting BaSO₄ or a sulfur oxide depositing on the NO_x catalyst into BaCO₃ or an NO_x occluding agent in an oxidizing atmosphere thereby recovering the emission control capacity of the NO_x catalyst.



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